BRUHAT BENGALURU MAHANAGARA PALIKE

Name of the work :- Construction of RCC culvert & U Shape drain for secondary SWD drains near Divya engineering works at Kammagondanahalli in Ward No.12

	Measurement Recorded On 1/11/2018						
S.N	Description	Unit	No.	L	B	D	Qty
E-2	KSRRB M200-11.1. Clearing and grubbing road land including uprooting rank vegetation, grass, bushes, shrubs, saplings and trees girth up to 300 mm, removalof stumps of trees cut earlier and disposal of unserviceable materials and stacking of serviceable material to be used or auctioned, including removal and disposal of top organic soil not exceeding 150 mm in thickness complete as per specifications. II. By Mechanical Means: A. In area of light jungle.						
	For U-Shape Drain	Ha					
	Ch- 1300.00 to 1780.00		1	480.00	9.50		4560.00
	Consider 30% of Voids						1368.00
						Sub total	3192.00
						Total	**0.32**

BVH CONSULTING ENGINEERS Bangalore

Assistant Engineer,
SWD Dasarahalli Zone,BBMP.

1/11/2018

Assistant Executive Engineer,
SWD Dasarahalli Zone,BBMP.

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BRUHAT BENGALURU MAHANAGARA PALIKE

Name of the work :- Construction of RCC culvert & U Shape drain for secondary SWD drains near Divya engineering works at Kammagondanahalli in Ward No.12

Measurement Recorded On 1/11/2018

S.N	Description	Unit	No.	L	B	D	Qty
3	**Excavation of removal of silt** mixed with sand, human excreta, garbage in slussy condition from Storm water drain in Bangalore City including disposing off the same as directed including cost of machinery labour, fuel etc., complete (By Mechanical Means) with all lead and lifts for disposing off to designated site as directed by the Engineer in charge of the work.						
	Down Stream Side Approach	Cum					
	1470.00 to 1500.00		1	30.00	4.50	0.90	121.50
	1500.00 to 1530.00		1	30.00	4.20	0.85	107.10
	1530.00 to 1560.00		1	30.00	4.65	0.85	118.58
	1560.00 to 1590.00		1	30.00	4.25	0.85	108.38
						Sub-Total	**455.55**

EVH CONSULTING ENGINEERS Bangalore

1/11/2018
Assistant Engineer,
SWD Dasarahalli Zone,BBMP.

Assistant Executive Engineer,
SWD Dasarahalli Zone,BBMP.

Measurement Recorded On 2/11/2018

S.N	Description	Unit	No.	L	B	D	Qty
4	**Excavation of removal of silt mixed with sand**, human excreta, garbage in slussy condition from Storm water drain in Bangalore City including disposing off the same as directed including cost of machinery labour, fuel etc., **(By Manual Means)** with all lead and lifts for disposing off to designated site as directed by the Engineer in charge of the work.						
	Culvert Aproach Drain	Cum			2.40	0.80	
	0.00 to 15.00		1	15.00	2.40	0.85	29.7
	15.00 to 30.00		1	15.00	2.40	0.85	30.6
	30.00 to 45.00		1	15.00	2.40	0.85	30.6
	45.00 to 60.00		1	15.00	2.40	0.80	29.7
	60.00 to 75.00		1	15.00	2.40	0.75	27.9
	75.00 to 90.00		1	15.00	2.40	0.75	27
	90.00 to 105.00		1	15.00	2.40	0.70	26.1
	105.00 to 120.00		1	15.00	2.40	0.75	26.1
	120.00 to 135.00		1	15.00	2.40	0.75	27
	135.00 to 150.00		1	15.00	2.40	0.65	25.2
	150.00 to 165.00		1	15.00	2.40	0.75	25.2
	165.00 to 180.00		1	15.00	2.40	0.65	25.2
	180.00 to 195.00		1	15.00	2.40	0.70	24.3
	195.00 to 210.00		1	15.00	2.40	0.60	23.4
	210.00 to 225.00		1	15.00	2.40	0.65	22.5
	225.00 to 240.00		1	15.00	2.40	0.70	24.3
	240.00 to 255.00		1	15.00	2.40	0.70	25.2
	255.00 to 270.00		1	15.00	2.40	0.74	25.92
	270.00 to 285.00		1	15.00	2.40	0.60	24.12
	285.00 to 300.00		1	15.00	2.40	0.65	22.5
	300.00 to 315.00		1	15.00	2.40	0.40	18.9
	315.00 to 330.00		1	15.00	2.40	0.50	16.2
						Sub-Total	**557.64**

EVH CONSULTING ENGINEERS Bangalore

2/11/2018
Assistant Engineer,
SWD Dasarahalli Zone,BBMP.

Assistant Executive Engineer,
SWD Dasarahalli Zone,BBMP.

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BRUHAT BENGALURU MAHANAGARA PALIKE

Name of the work :- Construction of RCC culvert & U Shape drain for secondary SWD drains near Divya engineering works at Kammagondanahalli in Ward No.12

Measurement recorded on 2/11/2018

S.N	Description	Unit	No.	L	B	D	Qty
5	Diversion of water course by providing coffer dams or bunds or islands as may be necessary for piers and abutments foundations, bailing out or pumping water during excavation and until completion etc... complete beyond 1.50m depth upto & including 3m depth all leads and lifts as directed by the Engineer in charge of the work.						
		Cum			0.87		
	1300.00 to 1315.00		1	15.00	(1.00+.75)/2	0.60	7.88
	1315.00 to 1330.00		1	15.00	(1.00+.75)/2	0.60	7.88
	1330.00 to 1345.00		1	15.00	(1.00+.75)/2	0.60	7.88
	1345.00 to 1360.00		1	15.00	(1.00+.75)/2	0.60	7.88
	1360.00 to 1375.00		1	15.00	(1.00+.75)/2	0.60	7.88
	1375.00 to 1390.00		1	15.00	(1.00+.75)/2	0.60	7.88
	1390.00 to 1405.00		1	15.00	(1.00+.75)/2	0.60	7.88
	1405.00 to 1420.00		1	15.00	(1.00+.75)/2	0.60	7.88
	1420.00 to 1435.00		1	15.00	(1.00+.75)/2	0.60	7.88
	1435.00 to 1450.00		1	15.00	(1.00+.75)/2	0.58	7.61 7.56
	1450.00 to 1465.00		1	15.00	(1.00+.75)/2	0.60	0.00
	1465.00 to 1480.00		1	15.00	(1.00+.75)/2	0.55	0.00
						Total	**78.49**

DVH CONSULTING ENGINEERS Bangalore

Assistant Engineer,
SWD Dasarahalli Zone,BBMP.

Assistant Executive Engineer,
SWD Dasarahalli Zone,BBMP.

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BRUHAT BENGALURU MAHANAGARA PALIKE

Name of the work :- Construction of RCC culvert & U Shape drain for secondary SWD drains near Divya engineering works at Kammagondanahalli in Ward No.12

Measurement recorded on 2/11/2018

S.N	Description	Unit	No.	L	B	D	Qty
23	KSRRB M100-1 Collecting, Conveying and disposal of surplus/excavated earth including Stone Boulder / Stone aggregates /Sand/ Kanker / Moorum to designated dumping site all leads and lifts for disposal as directed by the Engineer in charge of the work.						
		Cum	No.	L	B	D	
	Side Extra earth						
	1300.00 to 1315.00		1	15.00	9.00	1.40	189.00
	1315.00 to 1330.00		1	15.00	9.00	1.39	187.65
	1330.00 to 1345.00		1	15.00	9.00	1.35	182.25
	1345.00 to 1360.00		1	15.00	9.00	1.45	195.75
	1360.00 to 1375.00		1	15.00	9.00	1.42	191.70
						Total	**946.35**

CONSULTING ENGINEERS Bangalore PMC

Assistant Engineer, SWD Dasarahalli Zone,BBMP. 2/11/2018

Assistant Executive Engineer, SWD Dasarahalli Zone,BBMP.

Measurement recorded on 3/11/2018

S.N	Description	Unit	No.	L	B	D	Qty
6	Excavation in marshy soil upto 3m depth for foundation of structures as per drawing and technical specifications, removing the excavated stuf to a lead of 15m, including dewatering, shoring, refilling trenches in 250mm layers, wherever necessary watering and ramming, including cost of all materials, labour complete as per specifications. V. Marshy Soil - B Mechanical means as directed by the Engineer in charge of the work.						
	Cum						
	Existing drain before Excavation						

	Length	Bed width	Top width	Ave width	Depth of silt	Volume	Cumilative volume
1300.00 to 1303.00		2.00	4.00	3.00	1.20		
1303.00 to 1315.00	3.00	2.00	3.20	2.60	1.30	10.50	10.50
1315.00 to 1330.00	12.00	2.00	4.00	3.00	1.10	40.32	50.82
1330.00 to 1345.00	15.00	2.00	4.00	3.00	1.20	51.75	102.57
1345.00 to 1360.00	15.00	2.20	3.90	3.05	1.10	52.18	154.75
1360.00 to 1375.00	15.00	2.00	3.30	2.65	1.00	44.89	199.64
1375.00 to 1390.00	15.00	2.40	4.00	3.20	1.10	46.07	245.71
1390.00 to 1405.00	15.00	2.41	4.25	3.33	1.20	56.32	302.03
1405.00 to 1420.00	15.00	2.50	2.90	2.70	1.30	56.53	358.56
1420.00 to 1435.00	15.00	2.00	3.30	2.65	1.30	52.16	410.72
1435.00 to 1450.00	15.00	2.00	3.60	2.80	1.35	54.16	464.88
1450.00 to 1460.00	15.00	2.00	4.00	3.00	1.30	57.64	522.52
1460.00 to 1470.00	10.00	2.00	4.00	3.00	1.00	34.50	557.02

CONSULTING ENGINEERS Bangalore PMC

Assistant Engineer, SWD Dasarahalli Zone,BBMP. 3/11/2018

Assistant Executive Engineer, SWD Dasarahalli Zone,BBMP.

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BRUHAT BENGALURU MAHANAGARA PALIKE

Name of the work :- Construction of RCC culvert & U Shape drain for secondary SWD drains near Divya engineering works at Kammagondanahalli in Ward No.12

Measurement recorded on 3/11/2018

S.N	Description	Unit	No.	L	B	D	Qty
7	KSRRB M2100-2.1 Earth work in excavation for foundation of structures such as culverts, bridges etc., as per drawing and technical specifications,including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material complete as per specifications in Ordinary soil - B. Machanical Means (i) Depth upto 3m MORTH Specification No. 304 as directed by the Engineer in charge of the work.						

Cum

Existing drain before Excavation

	Depth of silt	Bed width	Top width	Ave width	Length	Volume	Cumilative volume
1300.00 to 1303.00	1.50	2.00	4.00	3.00			
1303.00 to 1315.00	1.50	2.00	3.20	2.60	3.00	12.60	12.60
1315.00 to 1330.00	1.50	2.00	4.00	3.00	12.00	50.40	63.00
1330.00 to 1345.00	1.50	2.00	4.00	3.00	15.00	67.50	130.50
1345.00 to 1360.00	1.50	2.20	3.90	3.05	15.00	68.06	198.56
1360.00 to 1375.00	1.50	2.00	3.30	2.65	15.00	64.13	262.69
1375.00 to 1390.00	1.50	2.40	4.00	3.20	15.00	65.81	328.50
1390.00 to 1405.00	1.50	2.41	4.25	3.33	15.00	73.46	401.96
1405.00 to 1420.00	1.50	2.50	2.90	2.70	15.00	67.84	469.80
1420.00 to 1435.00	1.50	2.00	3.30	2.65	15.00	60.19	529.99
1435.00 to 1450.00	1.50	2.00	3.60	2.80	15.00	61.31	591.30
1450.00 to 1460.00	1.50	2.00	4.00	3.00	15.00	65.25	656.55
1460.00 to 1470.00	1.50	2.00	4.00	3.00	10.00	45.00	**701.55**

CONSULTING ENGINEERS Bangalore PMC

Assistant Engineer,
SWD Dasarahalli Zone,BBMP.

3/11/2018

Assistant Executive Engineer,
SWD Dasarahalli Zone,BBMP.

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BRUHAT BENGALURU MAHANAGARA PALIKE

Name of the work :- Construction of RCC culvert & U Shape drain for secondary SWD drains near Divya engineering works at Kammagondanahalli in Ward No.12

Measurement recorded on 31/11/2018

S.N	Description	Unit	No.	L	B	D	Qty
9	KSRRB M2100-2.1 Earth work in excavation for foundation of structures such as culverts, bridges etc., as per drawing and technical specifications,including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material complete as per specifications in Ordinary soil - B. Machanical Means (i) Depth upto 3m MORTH Specification No. 304 as directed by the Engineer in charge of the work						
		Cum					
	Recharge pits		15	0.80	0.80	0.60	5.76

BUH CONSULTING ENGINEERS Bangalore PMC

Assistant Engineer,
SWD Dasarahalli Zone,BBMP.

31/11/2018

Assistant Executive Engineer,
SWD Dasarahalli Zone,BBMP.

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BRUHAT BENGALURU MAHANAGARA PALIKE

Name of the work :- Construction of RCC culvert & U Shape drain for secondary SWD drains near Divya engineering works at Kammagondanahalli in Ward No.12

S.N	Description	Unit	No.	L	B	D	Qty
Measurement recorded on 4/11/2018							
S.N	**Description**	**Unit**	**No.**	**L**	**B**	**D**	**Qty**
7	KSRRB M2100-2.1 Earth work in excavation for foundation of structures such as culverts, bridges etc., as per drawing and technical specifications,including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material complete as per specifications in Ordinary soil - B. Machanical Means (i) Depth upto 3m MORTH Specification No. 304 as directed by the Engineer in charge of the work.						
		Cum					
	After Excavation						
	1300.00		1	0.00	8.90	1.60	
	1300.00 to 1303.00		1	15.00	8.90	1.66	217.61
	1303.00 to 1315.00		1	15.00	8.90	1.76	228.29
	1315.00 to 1330.00		1	15.00	8.90	1.81	238.30
						Total	**684.19**

BVH CONSULTING ENGINEERS Bangalore PMC

Assistant Engineer, SWD Dasarahalli Zone,BBMP.

Assistant Executive Engineer, SWD Dasarahalli Zone,BBMP.

Measurement recorded on 4/11/2018							
10	**Providing and filling** in foundation with Granite/trap broken metal 100mm and down size, with approved sand including hand packing, ramming,watering, including cost of all materials and labour with all lead and lift.complete as per specifications as directed by the Engineer in charge of the work.**(SR2018-19 P7/2.15)**						
	Hole Filling (Slusy Soil)						
	1300.00 to 1315.00		1	15.00	7.00	0.30	31.50
	1331.00 to 1331.00		1	15.00	7.00	0.30	31.50
	1300.00 to 1315.00		1	15.00	4.00	0.30	18.00
						Total	**81.00**

BVH CONSULTING ENGINEERS Bangalore PMC

Assistant Engineer, SWD Dasarahalli Zone,BBMP.

Assistant Executive Engineer, SWD Dasarahalli Zone,BBMP.

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BRUHAT BENGALURU MAHANAGARA PALIKE						
Name of the work :- Construction of RCC culvert & U Shape drain for secondary SWD drains near Divya engineering works at Kammagondanahalli in Ward No.12						
Measurement recorded on 4/11/2018						
S.N	**Description**	**Unit**	**No.**	**L**	**B**	**D**	**Qty**
10	**Providing and filling** in foundation with Granite/trap broken metal 100mm and down size, with approved sand including hand packing, ramming,watering, including cost of all materials and labour with all lead and lift.complete as per specifications as directed by the Engineer in charge of the work.**(SR2018-19 P7/2.15)**						
	1300.00 to 1315.00	Cum	1	15.00	8.00	0.30	36.00
	1315.00 to 1330.00		1	15.00	8.00	0.30	36.00
						Total	**72.00**

PMC

Assistant Engineer, 4/11/2018
SWD Dasarahalli Zone,BBMP.

Assistant Executive Engineer,
SWD Dasarahalli Zone,BBMP.

	Measurement recorded on 9/11/2018						
S.N	**Description**	**Unit**	**No.**	**L**	**B**	**D**	**Qty**
12	KSRRB M2100-10 - Plain Cement Concrete **M10 with OPC** cement @ 220 kgs, with crushed 40mm and down size graded metal coarse aggregates @0.84 Cum and fine aggregates @ 0.56Cum, in foundation mechanically mixed placed in foundation and compacted by vibration including curing for 14 days complete as per specifications MORTH Specification No.2100 all leads and lifts as directed by the Engineer in charge of the work.**(SR2018-19 P222/27.18)**						
	1300.00 to 1301.80	Cum	1	1.80	7.70	0.15	2.08
	1301.80 to 1315.00		1	13.20	7.70	0.15	15.25
	1315.00 to 1330.00		1	15.00	7.70	0.15	17.33
						Total	**34.65**

BVH CONSULTING ENGINEERS Bangalore

PMC

Assistant Engineer, 9/11/2018
SWD Dasarahalli Zone,BBMP.

Assistant Executive Engineer,
SWD Dasarahalli Zone,BBMP.

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Name of Work	Construction of RCC culvert & U Shape drain for [illegible]
BOQ-18	Supplying,fitting and placing TMT bar reinforcement in sub-structure complete as per drawing and technical specifications complete as per specifications. TMT Bars Fe 500 all leads and lifts as directed by the Engineer in charge of the work.

SL No.	DESCRIPTION	Shape of Bar	Dia of Bar (mm)	Spacing (M)		Nos		Cut Length in (M)	Total Length in (M)					
									10	12	16	20	25	32
	Ch :1300.00 to 1330.00m													
	U-shape													
	Length = 30.00													
	Raft Bottom Bar		16	0.20	1	153	1	8.30		-	1,269.90	-	-	-
	Raft Top Bar		16	0.125	1	243	1	7.70		-	1,871.10	-	-	-
	Dirtribution		10	0.20	2	39	1	30.00	2,340.00	-	-	-	-	-
	Inner Wall		12	0.20	2	154	1	3.45		1,062.60	-	-	-	-
	Outer Wall		12	0.20	2	153	1	5.15		1,575.90	-	-	-	-
	Haunch		10	0.20	2	154	1	1.50	462.00	-	-	-	-	-
	Dirtribution		10	0.20	4	16	1	30.00	1,920.00	-	-	-	-	-
	Chairs		12		1	90	1	1.50	-	135.00	-	-	-	-
	U Bar		12		2	30	1	1.00	-	60.00	-	-	-	-
								Total Length (Rmt)	4,722.00	2,833.50	3,141.00	-	-	-
								Unit weight of bar	0.617	0.888	1.567	2.469	3.850	6.310
								Total quantity in KG	2,913.470	2,516.150	4,921.950	-	-	-
								Sub quantity	10.35 Tonne					

10 351.57

10/11/2018

Assistant Engineer
BBMP- SWD, Dasarahalli Zone
Bengaluru

Executive Engineer (SWD)
BBMP- SWD, Dasarahalli Zone
Bengaluru

Assistant Executive Engineer
BBMP- SWD, Dasarahalli Zone
Bengaluru

BVH CONSULTING ENGINEERS Bangalore

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BRUHAT BENGALURU MAHANAGARA PALIKE

Name of the work :- Construction of RCC culvert & U Shape drain for secondary SWD drains near Divya engineering works at Kammagondanahalli in Ward No.12

Measurement recorded on 15/11/2018

S.N	Description	Unit	No.	L	B	D	Qty
13	KSRRB M 2100-17.2 : Plain/reinforcement Cement Concrete design mix M25 with OPC cement @340 kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.70Cum and fine aggregates @0.47Cum with superplastisiser @ 3lts confirming to IS9103-1999 Reaffirmed-2008, open foundation complete as per Drawing and Technical Specification with Batching plant, transit mixer and concrete pump. MORTH Specification No. 1500, 1700 & 2100 all leads and lifts as directed by the Engineer in charge of the work.						
	1300.00 to 1301.80	Cum	1	1.80	7.50	0.45	6.08
	1301.80 to 1315.00		1	13.20	7.50	0.35	34.65
	1315.00 to 1330.00		1	15.00	7.50	0.35	39.38
						Total	80.10

Executive Engineer
Dasarahalli Zone,

GR Rowd 15/11/2018
Assistant Engineer,
PMC SWD Dasarahalli Zone,BBMP.

Assistant Executive Engineer,
SWD Dasarahalli Zone,BBMP.

Measurement recorded on 16/11/2018

S.N	Description	Unit	No.	L	B	D	Qty
14	KSRRB M 2200-5.12 : Design mix M25 sub structure with OPC cement @340kgs, with 20mm and down size graded granite metal coarse aggregates @0.7Cum and fine aggregates @0.47Cum with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 upto 5 mtrs. Upto 5 Mtrs height all leads and lifts as directed by the Engineer in charge of the work.(SR2018-19P227 /28.7.12) Side wall						
	1300.00 to 1301.80	Cum	2	1.80	0.45	3.15	5.10
	1301.80 to 1315.00		2	13.20	0.30	2.75	21.78
	1315.00 to 1330.00		2	15.00	0.30	2.75	24.75
	Hanch		1	30.00	0.30	0.30	2.70
						Total	54.33

EVH CONSULTING ENGINEERS Bangalore
PMC

GR Rowd 16/11/2018
Assistant Engineer,
SWD Dasarahalli Zone,BBMP.

Assistant Executive Engineer,
SWD Dasarahalli Zone,BBMP.

Executive Engineer
Dasarahalli Zone,BBM

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BRUHAT BENGALURU MAHANAGARA PALIKE

Name of the work :- Construction of RCC culvert & U Shape drain for secondary SWD drains near Divya engineering works at Kammagondanahalli in Ward No.12

Measurement recorded on 16/11/2018

7	KSRRB M2100-2.1 Earth work in excavation for foundation of structures such as culverts, bridges etc., as per drawing and technical specifications,including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material complete as per specifications in Ordinary soil - B. Machanical Means (i) Depth upto 3m MORTH Specification No. 304 as directed by the Engineer in charge of the work.							
			Cum					
	1330.00 to 1345.00			1	15.00	8.90	1.83	244.31
	1345.00 to 1360.00			1	15.00	8.90	1.80	242.30
							Total	**486.61**

BVH CONSULTING ENGINEERS Bangalore PMC

Assistant Engineer, SWD Dasarahalli Zone,BBMP.

Assistant Executive Engineer, SWD Dasarahalli Zone,BBMP.

Measurement recorded on 16/11/2018

S.N	Description	Unit	No.	L	B	D	Qty
10	**Providing and filling** in foundation with Granite/trap broken metal 100mm and down size, with approved sand including hand packing, ramming,watering, including cost of all materials and labour with all lead and lift.complete as per specifications as directed by the Engineer in charge of the work.**(SR2018-19 P7/2.15)**						
	1330.00 to 1345.00		1	15.00	8.00	0.30	36.00
	1345.00 to 1360.00		1	15.00	8.00	0.30	36.00
						Total	**72.00**

BVH CONSULTING ENGINEERS Bangalore PMC

Assistant Engineer, SWD Dasarahalli Zone,BBMP.

Assistant Executive Engineer, SWD Dasarahalli Zone,BBMP.

Measurement recorded on 17/11/2018

S.N	Description	Unit	No.	L	B	D	Qty
12	KSRRB M2100-10 - Plain Cement Concrete **M10 with OPC** cement @ 220 kgs, with crushed 40mm and down size graded metal coarse aggregates @0.84 Cum and fine aggregates @ 0.56Cum, in foundation mechanically mixed placed in foundation and compacted by vibration including curing for 14 days complete as per specifications MORTH Specification No.2100 all leads and lifts as directed by the Engineer in charge of the work.**(SR2018-19 P222/27.18)**						
	1330.00 to 1345.00		1	15.00	7.70	0.15	17.33
	1345.00 to 1360.00		1	15.00	7.70	0.15	17.33
						Total	**34.65**

BVH CONSULTING ENGINEERS Bangalore PMC

Assistant Engineer, SWD Dasarahalli Zone,BBMP.

Assistant Executive Engineer, SWD Dasarahalli Zone,BBMP.

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